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Conclusion.

The experiments are believed to prove that oysters which have lain in polluted water can be artificially purified to such a degree as to pass a most rigid standard by exposure for a short period in water containing calcium hypochlorite, and they appear also to demonstrate the feasibility of such a process.

Artificial purification of polluted oysters in water treated with calcium hypochlorite.

[Giving mean number of *B. coli* per c. c. in composite and individual shell liquor and composite mucus samples from 5 oysters.]

Inoculation.	Date.	Temperature, degrees.	Initial mean number B. coli per c. c.	Available chlorine added, parts per million.	Hours treated.	Mean number B. coli per c. c.	Available chlorine added, parts per million.	Hours treated.	Mean number B. coli per c. c.
Free coli	Aug. 25	27.0 C.	233.0	0.25	9	92.9	.....	.....	.....
Do	Aug. 31	24.5 C.	15.8	.25	8	.4	.....	.....	.....
Do	Sept. 2	21.0 C.	10.8	.60	.....	.....	.....	29	1.6
Do	Sept. 7	25.5 C.	5.4	.63	6	.3	0.25	.....	.1
Do	Sept. 16	27.0 C.	447.0	.38	6	.....	.37	.....	.2
Attached coli	Aug. 28	24.0 C.	680.0	.38	.....	.....	.....	18	6.8
Do	Aug. 31	24.5 C.	3,690.0	.50	5½	169.0	.....	.....	.....
Do	Sept. 2	21.0 C.	251.0	.63	4	158.0	.62	24	1.6
Do	Sept. 10	26.5 C.	1,000.0	.25	.....	.....	.....	24	13.1
Do	Sept. 14	27.5 C.	2,330.0	.25	6	.....	.25	20	4.0
Do	Sept. 16	27.0 C.	2,000.0	.33	6	.....	.33	12	1.3

PLAGUE-PREVENTION WORK.

CALIFORNIA.

The following report of plague-prevention work in California for the week ended June 17, 1916, was received from Senior Surg. Pierce, of the United States Public Health Service, in charge of the work:

SAN FRANCISCO, CAL.

RAT PROOFING.

New buildings:	
Inspections of work under construction	205
Basements concreted (square feet, 86,025)	45
Floors concreted (square feet, 130,925)	29
Yards, passageways, etc. (square feet, 21,783)	98
Total area of concrete laid (square feet)	238,733
Class A, B, and C (fireproof) buildings:	
Inspections made	152
Roof and basement ventilators, etc., screened	710
Wire screening used (square feet)	3,950
Openings around pipes, etc., closed with cement	1,370
Sidewalk lens lights replaced	900
Old buildings:	
Inspections made	417
Wooden floors removed	62
Yards and passageways, planking removed	19
New foundation walls installed (cubic feet)	8,800
Concrete floors installed (square feet, 15,127)	25
Basements concreted (square feet, 44,665)	39
Yards, passageways, etc., concreted (square feet, 18,671)	70
Total area concrete laid (square feet)	78,463

SAN FRANCISCO, CAL.—Continued.

RAT PROOFING—continued.

Old buildings—Continued.	
Floors rat proofed with wire cloth (square feet, 4,910)	7
Buildings razed	29
New garbage cans stamped approved	468
Nuisances abated	349

OPERATIONS ON THE WATER FRONT.

Vessels inspected for rat guards	23
Reinspections made on vessels	14
New rat guards procured	23
Defective rat guards repaired	11
Rats trapped on wharves and water front	38
Rats trapped on vessels	67
Traps set on wharves and water front	127
Traps set on vessels	241
Vessels trapped on	22
Poisons placed on water front (pieces)	3,600
Poisons placed within Panama-Pacific International Exposition grounds (pieces)	23,200
Bait used on water front and vessels, bacon (pieces)	6
Amount of bread used in poisoning water front (loaves)	9
Pounds of poison used on water front	3

RATS COLLECTED AND EXAMINED FOR PLAGUE.

City.	Collected.	Examined.	Infected.
San Francisco	164	149	None.
Oakland	7	7	None.
Total	171	156	None.

RATS IDENTIFIED.

Mus norvegicus	47	Mus alexandrinus	26
Mus rattus	73	Mus musculus	18

SQUIRRELS COLLECTED AND EXAMINED FOR PLAGUE.

County.	Collected.	Examined.	Infected.	County.	Collected.	Examined.	Infected.
Alameda	849	849	1	San Joaquin	134	125	None.
Contra Costa	667	653	None.	Santa Cruz	267	267	None.
San Benito	663	613	2	San Mateo	275	275	None.
Merced	197	197	None.	Sonoma	58	58	None.
San Luis Obispo	477	477	None.	Monterey	43	43	None.
Santa Clara	410	392	None.	Total	4,259	4,168	3
Stanislaus	219	219	None.				

OTHER ANIMALS COLLECTED AND EXAMINED.

Rabbits	40
Coyotes	1
Weasels	1
Total	42
Infected	None.

RANCHES INSPECTED AND HUNTED OVER.

Alameda	69
Contra Costa	36
San Benito	23
Merced	27
San Luis Obispo	11
Santa Clara	29
Stanislaus	25
San Joaquin	32
Santa Cruz	23
San Mateo	12

RANCHES INSPECTED AND HUNTED OVER—Con.

	7
Sonoma	
Monterey	7
Total	301

PLAGUE INFECTED SQUIRRELS.

Alameda County:

Shot June 7, 1916. J. A. Mulqueeney Ranch, 12 miles southwest of Midway, N. ½ sec. 12, T. 3 S., R. 3 E 1

San Benito County:

Shot May 26, 1916. V. B. Oldham Ranch, 4 miles northwest of Emmet, sec. 28, T. 14 S., R. 7 E 1

Shot June 6, 1916. G. Wapple Ranch, sec. 10, T. 14 S., R. 7 E., 5 miles north of Paicines 1

RECORD OF PLAGUE INFECTION.

Place in California.	Date of last case of human plague.	Date of last case of rat plague.	Date of last case of squirrel plague.	Total number rodents found infected since May, 1907.
Cities:				
San Francisco	Jan. 30, 1908	Oct. 23, 1908	None	398 rats.
Oakland	Aug. 9, 1911	Dec. 1, 1908	do	126 rats.
Berkeley	Aug. 28, 1907	None	do	None.
Los Angeles	Aug. 11, 1908	do	Aug. 21, 1908	1 squirrel.
Counties:				
Alameda (exclusive of Oakland and Berkeley).	Sept. 24, 1909	Oct. 17, 1909, wood rat.	June 7, 1916	291 squirrels, 1 wood rat.
Contra Costa	July 13, 1915	None	May 30, 1916	1,618 squirrels.
Fresno	None	do	Oct. 27, 1911	1 squirrel.
Merced	do	do	May 12, 1916	7 squirrels.
Monterey	do	do	May 27, 1916	38 squirrels.
San Benito	June 4, 1913	do	June 6, 1916	64 squirrels.
San Joaquin	Sept. 18, 1911	do	Aug. 26, 1911	18 squirrels.
Santa Clara	Aug. 31, 1910	do	May 30, 1916	31 squirrels.
San Luis Obispo	None	do	Jan. 29, 1910	1 squirrel.
Santa Cruz	do	do	May 30, 1916	5 squirrels.
Stanislaus	do	do	June 2, 1911	13 squirrels.

The work is being carried on in the following named counties: Alameda, Contra Costa, San Francisco, Stanislaus, San Benito, Monterey, Merced, Santa Clara, San Mateo, Santa Cruz, San Luis Obispo, San Joaquin, Sonoma, Lassen, and Modoc.

WASHINGTON—SEATTLE—PLAGUE ERADICATION.

The following report of plague-eradication work at Seattle for the week ended June 24, 1916, was received from Surg. Boggess, of the United States Public Health Service, in charge of the work:

RAT PROOFING.

New buildings inspected	21
New buildings reinspected	19
Basements concreted, new buildings (square feet, 12,275)	10
Floors concreted, new buildings (square feet, 7,250)	4
Yards, etc., concreted, new buildings (square feet, 2,175)	3
Sidewalks concreted (square feet)	11,450
Total concrete laid, new structures (square feet)	33,150
New buildings elevated	4
New premises rat proofed, concrete	14
Old buildings inspected	3
Premises rat proofed, concrete, old buildings	3
Floors concreted, old buildings (square feet, 37,250)	3
Wooden floors removed, old buildings	3
Buildings razed	2

LABORATORY AND RODENT OPERATIONS.

Dead rodents received	4
Rodents trapped and killed	320
Rodents recovered after fumigation	12
Total	336
Rodents examined for plague infection	262
Rodents proven plague infected	None.
Poison distributed, pounds	16
Bodies examined for plague infection	1
Bodies found plague infected	None.

CLASSIFICATION OF RODENTS.

Mus rattus	32
Mus alexandrinus	73
Mus norvegicus	187
Mus musculus	43
Muskrat	1

WATER FRONT.

Vessels inspected and histories recorded	17
Vessels fumigated	3
Sulphur used, pounds	2,960
New rat guards installed	17
Defective rat guards repaired	26
Fumigation certificates issued	3
Port sanitary statements issued	42

The usual day and night patrol was maintained to enforce rat guarding and fending.

MISCELLANEOUS WORK.

Rat-proofing notices sent to contractors, new buildings	17
Letters sent in re rat complaints	6
Fishing vessels inspected—medicine chests	3

RODENTS EXAMINED IN EVERETT.

Mus norvegicus trapped	68
Mus musculus trapped	6
Total	74
Rodents examined for plague infection	67
Rodents proven plague infected	None.

RAT-PROOFING OPERATIONS IN EVERETT.

New buildings inspected	3
New buildings reinspected	5
New buildings, concrete foundations	2
New buildings elevated	1
New buildings, basements concreted (square feet, 3,132)	3
New buildings, yards concreted (square feet, 140)	1
Total concrete laid, new buildings (square feet)	3,272

RODENTS EXAMINED IN TACOMA.

Mus norvegicus trapped	60
Rodents examined for plague infection	60
Rodents proven plague infected	None.

HAWAII—HILO—PLAGUE PREVENTION.

The following report of plague-prevention work at Hilo for the week ended June 10, 1916, was received from Surg. Trotter, of the United States Public Health Service:

Rats and mongoose taken	2,560
Rats trapped	2,504
Mongoose taken	56
Rats and mongoose examined microscopically	2,560
Rats and mongoose examined microscopically	2
Rats and mongoose examined bacteriologically	1
Rats and mongoose plague infected	None.

Classification of rats trapped and found dead:

Mus norvegicus	818
Mus alexandrinus	278
Mus rattus	462
Mus musculus	946

Last case of rat plague, Paauhau Sugar Co., Jan. 18, 1916.

Last case of human plague, Paauhau Sugar Co., Dec. 16, 1915.

PORTO RICO—PLAGUE PREVENTION.

The following table shows the number of rats and mice examined in Porto Rico for plague infection during the two weeks ended June 23, 1916. No plague infection was found.

Place.	Rats.	Mice.
San Juan	141	19
Puerta de Tierra	99	1
Santurce	147	3